

Meeting Description: Michigan Geographic Framework Users Meeting

Date: January 10, 2002

Time: 10:00 a.m.

Location: Michigan Information Center, George W. Romney Building, 10th Floor, Conference Room

I. Approval of December Meeting Minutes

II. Geographic Framework Program

A. Repositioning Update

Everett Root, Michigan Information Center (MIC), reported that 63% of the Physical Reference (PR) roads and 80% of the quarter quads (QQ) in the state have been repositioned. The work is going slower in the populated areas because there are more nodes to move and vertices to remove. The newer subdivisions are not square and staff is adding lot of vertices. Wayne County went through a 2-step process to match Wayne County centerline geography to MIC geography. Wayne County had framework and MIC node IDs on file. MIC's nodes were matched to Wayne County's nodes and where there was a perfect match, MIC's nodes were moved to Wayne County's in an automated way. Wherever the arcs matched exactly Wayne County's shapes from their arcs were moved to MIC's arcs. Approximately 85% to 90% of the arcs in the county were repositioned right away. MIC is now reviewing the remainder of the county. They anticipate completion of the county by the end of the month. Under normal procedures, this process would have taken 5 ½ months. Ottawa County has repositioned MIC's line work and that will be put into MIC's file. MIC has 8-10 full-time staff working on it full-time, 3 student staff working on it part-time, and other full-time staff spending half their time repositioning. As counties are completed, MIC will look at quality control of the linear referencing system. At this point, were able to get all counties back to identity points after repositioning.

B. Digital Ortho Update

Everett Root, MIC, reported that they have all the ortho photos. A 1998 Series Digital Ortho Quad (DOQs) Status Map was distributed. Michigan Department of Natural Resources (MDNR) receives the DOQs from the United States Geological Survey (USGS). They convert them, reproject them, and send a copy to store on MIC's server. MDNR creates a MrSID to go into the Spatial Data Library. The middle part of the state is being worked on. Three counties in the thumb are going through the process at MDNR.

Bill Enslin, MSU Center for Remote Sensing and GIS, asked if the DOQs are being mosaiced by county.

Everett Root, MIC, responded that MIC is using them by quarter quad (QQ). When a DOQQ is reprojected, a black area is created around the photo. Where two photos overlap, the black covers part of the photo. MrSID mosaicing process takes the black away. Something happens in the process of reprojecting where the pixels are not exactly black and MrSid does not recognize them. MDNR is working with ERDAS to solve the problem. Until then MIC cannot create mosaics like the county product that was made before.

Bill Enslin, MSU, would like two original files to experiment with. They are working with ER Mapper, which has ECW compression and would like to see if the same things occurs there. ECW handles the topo quads good.

Jeroen Wagendorp, Allegan County, asked which Bill liked best – MrSID or ECW.

Bill Enslin, MSU, stated that the ECW compression is twice as fast in displaying for the viewer. It can handle unlimited sizes. There is a component available for Visual Basic, which Bill included in the viewer for testing to pull data off the web site - do not have to have mosaic online. With mosaicing limitless, theoretically can get a seamless rendition. There is no cost

involved for the client - the cost is for the server and compressor. There is a free one for small files. It is very fast over the Internet. It looks very encouraging. There are a couple of ways to include it with ArcIMS. They have not worked with storing image catalogs or storing images in SDE. The driving force for ECW is the map image viewer.

Jeroen Wagendorp, Allegan County, asked about the shading of the pixels.

Everett Root, MIC, responded that not all of the pixels are the same. If run through batch mode in PhotoShop, you lose georeferencing. In regards to the SDE and orthos, Tom Dewitte, ESRI, was at the MIC and worked with SDE installation and loaded data. Took original black and white UTM QQ, loaded them on MIC's server in mosaic and reviewed the UTM with Michigan GeoRef geography. It was instantaneous viewing. Tom said that because MIC has reprojected to Michigan GeoRef, they might not mosaic in their environment because the pixels are not exact. By using original UTM, it worked. May be able to store in UTM and view in Michigan GeoRef.

Bill Enslin, MSU, commented that it seems that should be able to filter.

Everett Root, MIC, added that this was discovered a couple of months ago. When the mosaic was done, black slivers were there. Then loaded in PhotoShop and discovered pixels were not true black. MDNR has been working on it for several weeks and has not found a solution.

C. National Hydro Dataset (NHD) Update

Steve Miller, Michigan Department of Environmental Quality (MDEQ), reported that they are meeting to make sure that the data sets are consistent.

Everett Root, MIC, added that Steve has documents to put on the web site for information purposes.

Steve Miller, MDEQ, commented that the intent is to get information out there on the web site for viewing, but he thinks it will turn into a status type thing. The Bureau of Indian Affairs completed the Manistique watershed in NHD high resolution.

III. Michigan Department of Natural Resources (MDNR) Projects and Activities

Nobody in attendance.

IV. Michigan Department of Transportation (MDOT) Projects and Activities

Joyce Newell, MDOT, reported that they started doing national functional class (NFS) for Wayne County. The Saturday before Christmas there was a fire in the Transportation Building. The server that has ArcINFO on it was damaged. They are now trying to get ArcINFO reinstalled. Editing the NFS for Wayne County is priority. Oakland County is finished except for the regional check. Intent is to merge (3-4 days) Wayne, Oakland, St. Clair, and Macomb Counties and get back to MIC.

Ann VanSlembrouck, SEMCOG, asked Everett how long it will take MIC to do their portion of Wayne County.

Everett Root, MIC, stated that MIC needs half a day to put changes in. It will be Version1b. When they get all changes from the 4 regional counties, they will merge the state together and do statewide checks.

Ann VanSlembrouck, SEMCOG, asked if SEMCOG wants a delivery of only highways or rail, can it be done.

Everett Root, MIC, responded that MIC has done a few on request.

Joyce Newell, Michigan Department of Transportation (MDOT), added that given size of files, it might be beneficial to have shape files as well as E00 files.

Ann VanSlembrouck, SEMCOG, commented that they want the whole thing. They will extract different layers with their own process.

Everett Root, MIC, stated that they have not created an E00 for the whole state. But did the roads and it was over a gigabyte, which zips down to less than 200 MB. The metadata is coming together by county as well.

Ann VanSlembrouck, SEMCOG, asked which version MIC is working on.

Everett Root, MIC, responded that MIC is distributing Version 1a. After the statewide checks are run then it will be Version 1b. Anticipate that the checks will run through fine. There will not be change transaction files. The only way to find which files have been changed is to compare them. After Version 1b MIC will do Version 2 which is repositioning.

Joyce Newell, MDOT, added that MDOT double-checked attributes along regional boundaries. They did not discover many errors.

Joyce Newell, MDOT, reported that Gil Chesbro, MDOT, is physically checking mileage of ramps in Clinton County against framework. Also getting high accuracy global position system (GPS) coordinates for intersection to check repositioned Clinton County. Will have to meet to discuss accuracy across the state. MDOT have started getting 'as-built' design plans for projects from the 1950's state trunkline and relate them to framework. This work will be done by Michigan State Industries (MSI).

V. Michigan Department of Environmental Quality (MDEQ) Projects and Activities

Steve Miller, MDEQ, reported that since the MDEQ Geographic Information Systems (GIS) servers have been moved to their new location and are now overseen by the Department of Information Technology and they have been encouraged to take another look at their information. Bill Enslin, MSU, will use the viewer to help them see what they are going to use.

VI. Michigan State Police (MSP) Projects and Activities

Eric Nischan, MSP, reported that MSP has been going through Business Process Improvement Initiative, which has been taking up some of the GIS resources. They have also been side tracked because of the terrorist preparedness. Department of Management and Budget (DMB) and the MSP are looking at the E-TEAM product, which is an incident management emergency product. Want to be sure that E-TEAM plans to use framework, since there have not been any GIS people at the meetings.

VII. Michigan State Industries (MSI) Projects and Activities

Carol Woodman, MSI, reported that they have one worker assigned to the additional physical referencing (PR) Finders work. Will be done in approximately 3 weeks. MSI received the 'as built' today and will start working on that project.

VIII. Michigan Information Center (MIC) Projects and Activities

A. Michigan Schools Info Online Update

Everett Root, MIC, reported that the Michigan School Info Online page (Michigan.gov, then under Education) will be updated at 9 a.m. tomorrow with the 2001 MEAP data released by Department of Treasury. Query is available on schools, the school locations, and roads on framework. New layers were brought over yesterday and loaded.

Bill Enslin, MSU, added that it uses ArcIMS and ArcSDE for spatial components. MSU has been involved with the mapping component. The front-end HTML pages were done by Strategic Interactive. The map is a customized ArcIMS HTML application. It is developed in the current version, 3.1. The operational site is housed at MIC and MSU has the development and backup sites.

IX. MSU Center for Remote Sensing and GIS Projects and Activities
A. Demonstrated the Michigan MapImage Viewer Version 1.0.

X. County / Local Projects and Activities

Jeroen Wagendorp, Allegan County, reported that the county is \$2 million in hole at budget level and Jeroen is not sure how it will shake down.

Everett Root, MIC, commented that he spoke to the Lapeer GIS Committee and they plan to re-fly their county. Everett showed the copies of the state's DOQs, which the committee thought would meet most of their needs. MIC may convert for them, but did suggest that the committee look at the prices of consultants. Region 2 Planning made same request for Hillsdale County and they are also going to check on the conversion cost.

Mark Clute, St. Joseph County, added that it is possible to get the converter free off the internet. Once the conversion is done, can reproject into MapInfo.

Everett Root, MIC, commented the MIC got an AML from the ESRI site that does the color infrared (IR) 140 MB file in about 15 minutes. Everett went to St. Clair County to demonstrate the framework and the viewer at their GIS meeting. At both county meetings, there were townships, cities, and counties in attendance.

XI. Regional Projects and Activities

Abbi Mueller, West Michigan Regional Planning Commission (WMRPC), has nothing to report.

Laura Tschirhart, Tri-County Regional Planning Commission (TCRPC), reported that they have been having town forums. Turn out was low – perhaps because of the holiday. At the meetings, they discuss area growth if zoning stays same or use other options, and what the areas will look like. Now the consultants are going through community feedback.

Ann VanSlembrouck, SEMCOG, reported that they are still working on 2000 land/use update and attributing block attributes onto framework. Everyone is anxiously awaiting Wayne County framework

XII. Federal Projects and Activities

Nobody in attendance.

XIII. Other Issues

XIV. Next Meeting Date

February 7, 2002, 10 a.m. until 12 p.m., Michigan Information Center, George W. Romney Building, 111 S. Capitol, 10th Floor, Lansing, MI 48933

** If any changes or corrections are to be made to these minutes, please contact the Michigan Information Center at (517) 373-7910. Changes and corrections will be noted on the final copy to be posted on the Michigan Information Center's home page (state.mi.us/dmb/mic).